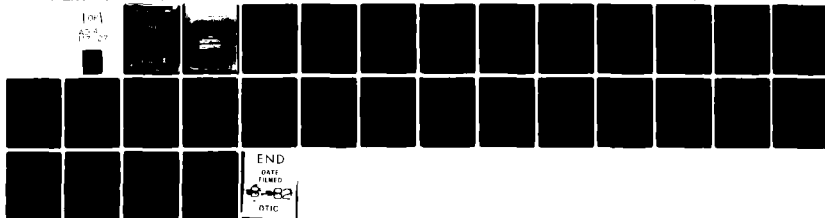


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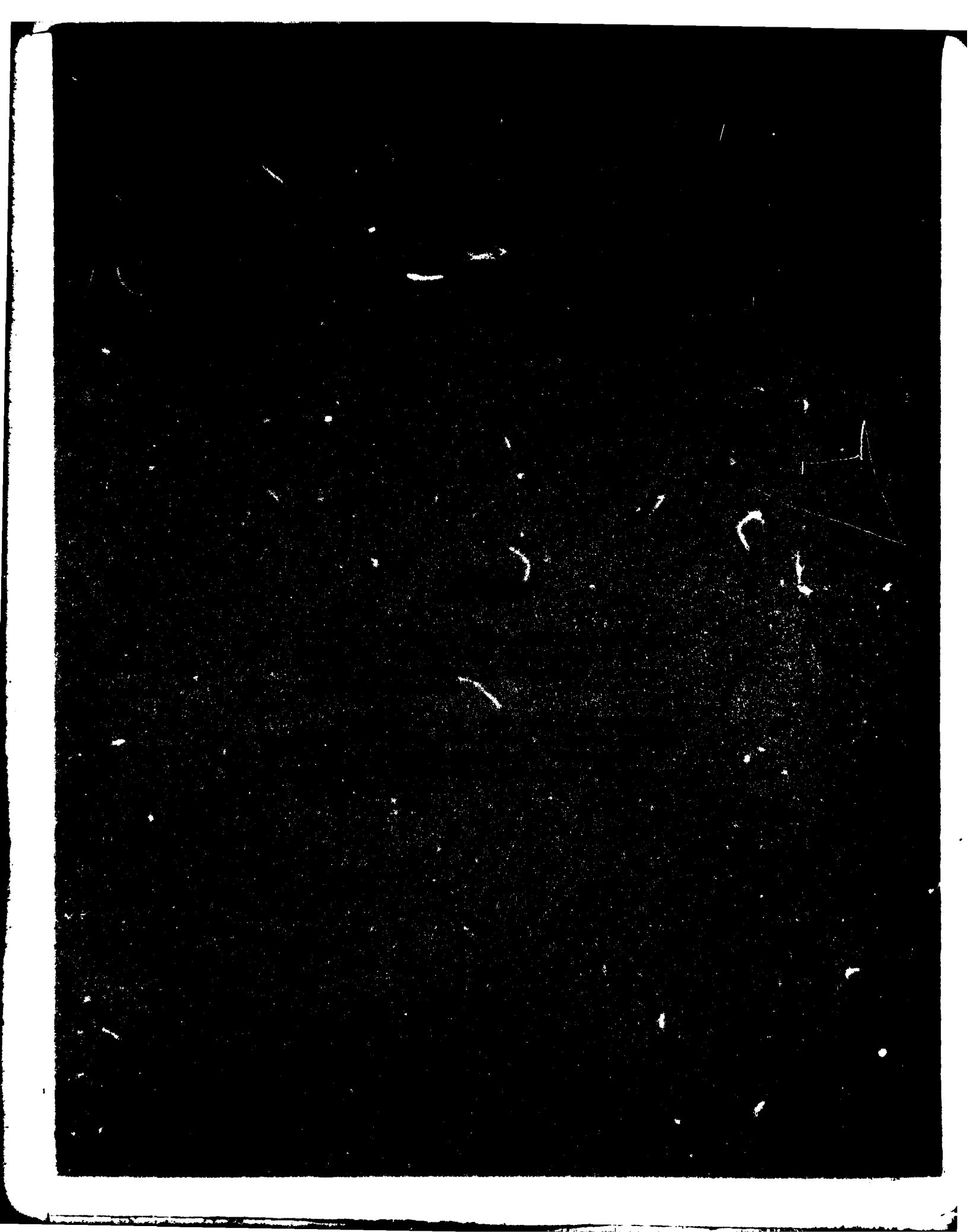
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FOR THE F-4E
THE NUMBER 200-0000

ADDITIONAL INFORMATION
FOR THE F-4E MISSILE AND THE F-4E

FOR THE F-4E MISSILE AND THE F-4E

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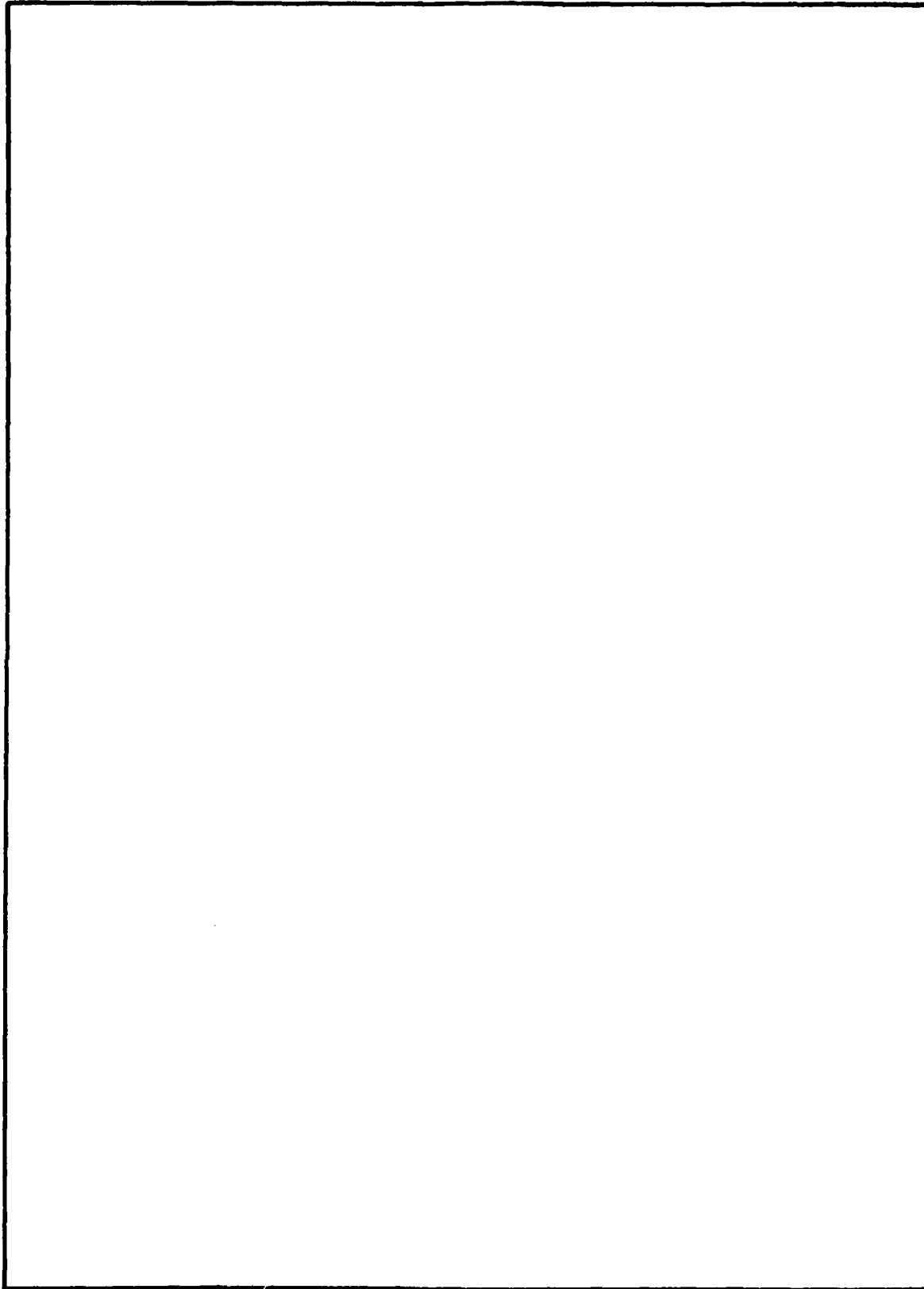
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INTRODUCTION

19318B MLRS, Missile Numbers BN-177, BN-143, BN-179, BN-160, BN-151, and BN-150, Round Numbers V-268/PQ-8 Thru V-273/PQ-13, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0830:00, 0830:05, 0830:09, 0830:14, 0830:18, and 0830:23 MDT. The scheduled launch times were 0830:00, 0830:04.5, 0830:09, 0830:13.5, 0830:18 and 0830:22.5 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from pilot-balloon observations at:

SITE AND ALTITUDE

WSD 2 Km
DON 2 Km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

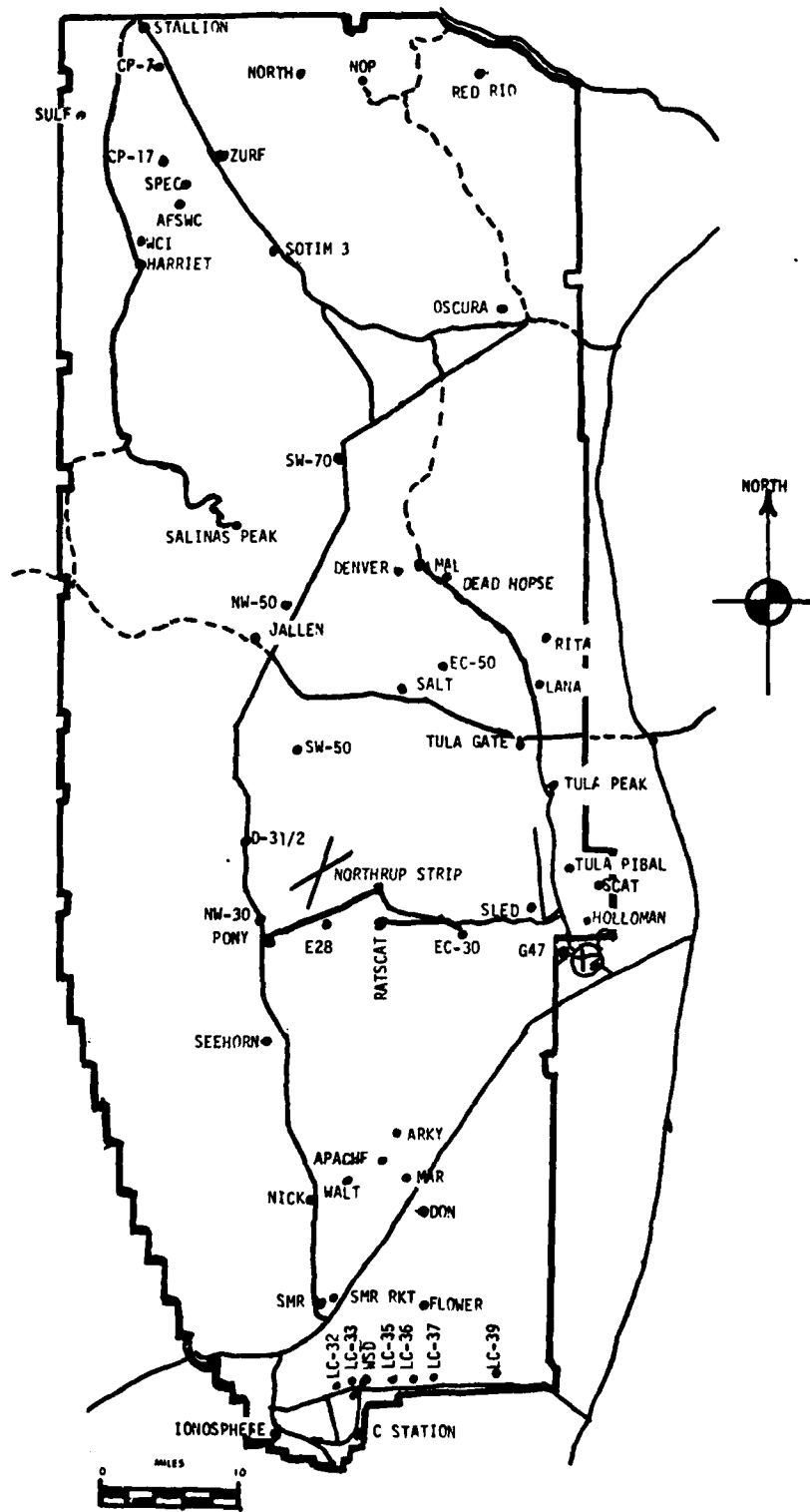
SITE AND TIME

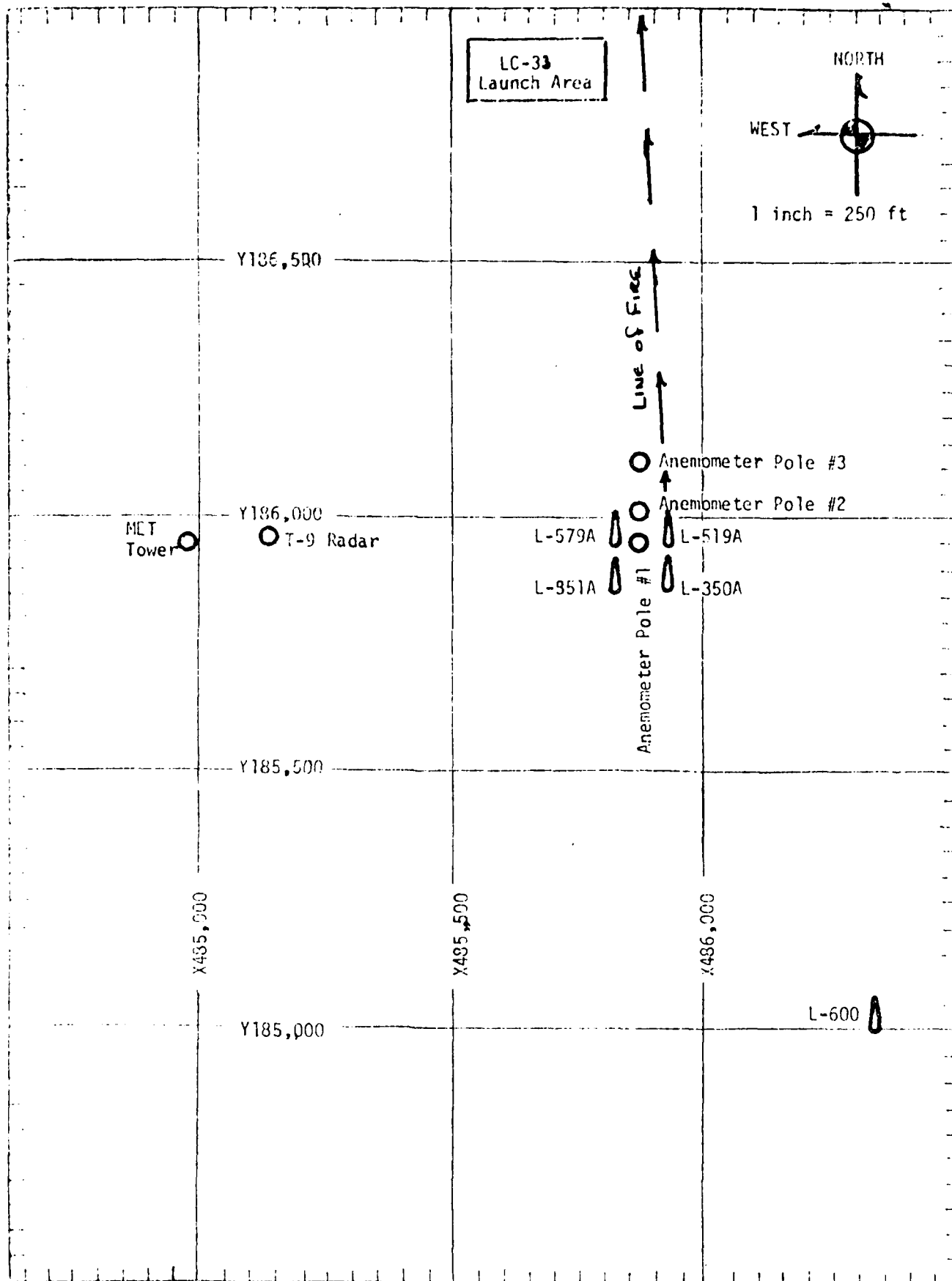
WSD 0540 MDT
LC-37 0630 MDT
WSD 0702 MDT
LC-37 0830 MDT



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WSMR METEOROLOGICAL SITES





PROJECT SURVEY INFORMATION

TABLE 1
 DATE 08 Jun 82
 STATION LC-33

TIME 0830
 Y= 484,982.64 X= 185,957.73 H= 3,995.00

TIME	WIND I	PRESSURE hPa	TEMPERATURE of °C	DEW POINT of °C	RELATIVE HUMIDITY %	DENSITY g/m ³	DIRECTION deg In	SPEED Kts	WIND-ROTOR Kts	VISIBIL- ITY
0830		878.9	25.5	6.7	30	1019	149	06		50

INSTRUCTIONS TO VISIBILITY	CLOUDS						TEMPERATURE			
	1st LAYER		2nd LAYER		3rd LAYER					
	AMT	TYPE	HGT	AMT	TYPE	HGT				
	4	CU	6500	3	AC	12,000	1	CI	25,000	H ALQDS

PSYCHROMETRIC COMPUTATION

TIME:	0830
DRY BULB TEMP.	25.5
WET BULB TEMP.	14.2
WET BULB DEPR.	11.3
DEW POINT	6.7
RELATIVE HUMID.	30

TABLE 2 LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1 X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL			POLE #2 X485,874.29 Y186,012.00 H4033.57 53.0 ft. AGL			POLE #3 X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL		
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
T-30	MISG	07	T-30	153	06	T-30	147	09
T-20	MISG	06	T-20	150	06	T-20	147	09
T-10	MISG	07	T-10	150	07	T-10	153	08
T 0.0	MISG	08	T 0.0	145	07	T 0.0	145	09
T+10	MISG	08	T+10	177	03	T+10	146	09

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #2, 62 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
T-30	153	06	T-30	159	09
T-20	153	06	T-20	155	09
T-10	150	06	T-10	155	08
T 0.0	149	06	T 0.0	150	09
T+10	154	06	T+10	150	09

LEVEL #3, 102 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
T-30	152	09	T-30	135	10
T-20	147	09	T-20	138	10
T-10	146	09	T-10	136	10
T 0.0	144	08	T 0.0	130	09
T+10	147	09	T+10	134	10

TABLE 4

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 08 June 1982

SITE: WSD

TIME: 0830 MDT

WSTM COORDINATES:

X= 488,580.00

Y= 185,045.00

H= 3,989.00

SITE: DON

TIME 0840 MDT

WSTM COORDINATES:

X= 511,988.37

Y= 247,396.36

H= 3,996.83

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	160	04
150	186	10
210	195	08
270	274	02
330	292	04
390	271	05
500	258	11
650	260	10
800	243	07
950	204	08
1150	222	12
1350	226	15
1550	216	18
1750	207	18
2000	205	22

Data obtained from Nike-Herc
Radar Tracked pilot-balloon
observation.

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	140	09
150	176	11
210	186	11
270	196	11
330	207	11
390	215	12
500	227	12
650	240	13
800	244	16
950	247	18
1150	247	19
1350	250	18
1550	250	17
1750	249	19
2000	241	24

Data obtained from single theodolite
tracked pilot-balloon observation

TABLE 5

AIMING AND T-TIME COMPUTER MET MESSAGES

WSD .0540 MDT	LC-37 0630 MDT
METCM1324064	METCM1324063
081160122878	081250124877
00213006 29620878	00338004 29450877
01288007 29910868	01348014 29760867
02486007 29830844	02465007 29810842
03468011 29590806	03466007 29530805
04402011 29160760	04417011 29170759
05394018 28800717	05398018 28820716
06372021 28440675	06378021 28380674
07402022 28000636	07401022 27940635
08427024 27550598	08420022 27490597
09421028 27120562	09419023 27050561
WSD 0702 MDT	LC-37 0830 MDT
METCM1324064	METCM1324063
081300122879	081450124878
00320004 29700879	00302006 29860878
01345013 29810869	01327012 29860868
02475007 29930844	02403003 29800843
03487009 29610806	03428008 29540805
04419010 29220761	04393014 29160760
05393018 28880717	05374019 28810717
06384022 28490676	06379022 28400675
07400022 28020637	07399024 27950635
08415023 27580599	08405023 27480598
09409025 27140563	09429029 27040561
	10440031 26680527

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

SIGNIFICANT LEVEL DATA
15900.20255
WHITE SALTS

STATION ALTITUDE 3989.00 FEET MSL
8 JUNE 62
ASCENSION NO. 255

TABLE 6

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
878.0	3989.0	20.7	42.0
868.4	4303.7	25.5	34.0
858.6	4631.2	25.6	24.0
850.0	4920.9	20.5	24.0
792.4	6925.0	21.1	25.0
764.0	7955.2	17.0	29.0
700.0	10388.3	12.4	39.0
691.0	10744.6	11.7	44.0
673.0	11460.9	10.4	41.0
646.8	12550.1	7.5	43.0
629.0	13302.9	5.5	28.0
561.4	16314.1	-2.5	44.0
520.8	18256.4	-7.4	70.0
500.0	19290.2	-10.1	78.0
		-13.2	

STATION ALTITUDE 3989.00 FEET MSL
8 JUNE 62 0540 MDT
ASCENSION NO. 255

UPPER AIR DATA
1500Z0255
WHITE SANDS

CLOUD TIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 7

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SPEED KNOTS	INDEX OF REFRACTION
3989.0	870.0	20.7	7.3	42.0	1030.3	669.3	120.0	1.000276
4000.0	877.7	20.9	7.4	41.7	1035.3	669.5	120.3	1.000276
4500.0	862.5	25.6	5.7	28.0	1001.6	674.7	154.9	1.000262
5000.0	847.6	24.4	2.5	24.0	989.3	673.1	247.9	1.000252
5500.0	832.9	23.5	2.0	24.3	975.0	672.1	260.0	1.000248
6000.0	813.5	22.7	1.4	24.5	960.9	671.1	264.5	1.000243
6500.0	804.3	21.8	.3	24.8	947.0	670.1	245.1	1.000239
7000.0	790.3	20.8	.3	25.3	933.7	669.0	232.1	1.000235
7500.0	776.4	19.1	-.2	27.2	922.6	667.0	230.1	1.000232
8000.0	762.8	17.5	-.6	29.2	911.0	665.1	231.2	1.000229
8500.0	749.2	16.4	-.6	31.2	896.6	663.9	234.5	1.000227
9000.0	733.8	15.4	-.7	33.3	885.0	662.7	227.4	1.000224
9500.0	722.7	14.3	-.8	35.3	873.2	661.5	221.3	1.000221
10000.0	709.8	13.2	-1.0	37.4	860.9	660.3	210.2	1.000218
10500.0	697.2	12.2	-.8	40.6	846.5	659.1	215.4	1.000216
11000.0	684.6	11.2	-.9	42.9	835.9	658.0	212.5	1.000213
11500.0	672.2	10.3	-2.3	41.1	823.7	656.9	212.5	1.000208
12000.0	660.0	9.0	-3.2	42.0	812.7	655.3	210.0	1.000204
12500.0	648.0	7.6	-4.2	42.9	801.0	653.7	220.7	1.000200
13000.0	636.1	6.3	-8.4	34.0	791.4	651.9	220.4	1.000192
13500.0	624.3	5.0	-11.5	29.0	780.8	650.2	231.5	1.000186
14000.0	612.7	3.6	-11.6	31.7	769.9	648.7	230.2	1.000184
14500.0	601.2	2.3	-11.8	34.4	759.1	647.1	237.9	1.000181
15000.0	590.0	1.0	-12.0	37.0	748.5	645.5	238.7	1.000179
15500.0	578.9	-.3	-12.4	39.7	738.1	644.0	230.2	1.000176
16000.0	568.1	-1.7	-12.8	42.3	727.9	642.4	238.2	1.000174
16500.0	557.4	-3.0	-12.7	47.1	717.5	640.9	230.6	1.000172
17000.0	546.7	-4.2	-11.8	55.3	707.0	639.4	240.8	1.000170
17500.0	536.2	-5.5	-11.3	63.5	696.7	637.9	243.3	1.000169
18000.0	526.0	-6.8	-11.0	71.8	686.5	636.5	244.5	1.000167
18500.0	515.9	-8.0	-11.4	76.5	676.6	634.9		1.000164
19000.0	505.8	-9.3	-12.5	77.4	666.8	633.3		1.000161

STATION ALTITUDE 3989.00 FEET MSL
 8 JUNE 82 0540 MDT
 ASCENSION NO. 255

FACTORY LEVELS
 1500020255
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

TABLE 8

PRESSURE (LUPOTENTIAL)		TEMPERATURE		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4917.	24.5	2.0	240.2	2.8
800.0	6648.	21.6	.0	239.1	9.0
750.0	8465.	10.5	-7.0	234.5	13.0
700.0	10378.	12.4	-1.1	210.1	19.8
650.0	12403.	7.4	-4.0	219.0	21.4
600.0	14540.	2.2	-11.0	230.0	22.5
550.0	16826.	-3.8	-12.0	240.1	20.8
500.0	19269.	-10.1	-13.2		

STATION ALTITUDE 4051.37 FEET MSL
 8 JUNE 62
 ASCENSION NO. 56

SIGNIFICANT LEVEL DATA
 1590180050
 LC-37

TABLE 9

GEODETIC COORDINATES
 32.40175 LAT DEG
 106.51232 LONG DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
876.9	4051.4	20.1	0.4	41.0
863.8	4481.2	24.9	5.7	29.0
850.0	4944.2	24.4	5.1	25.0
709.0	10412.5	12.8	-4	40.0
663.2	11892.1	8.4	-9	42.0
654.2	12263.0	7.8	-6.7	35.0
575.4	15684.0	-1.4	-12.9	41.0
542.4	17220.7	-5.4	-11.9	50.0
518.2	18392.8	-8.6	-10.1	49.0
500.0	19301.3	-11.1	-12.3	91.0

STATION ALTITUDE 4551.37 FEET MSL
8 JUNE 82
ASCENSION NO. 58630 MDT

U.P.R. AIR DATA
159010050
LC-37

GEODETIC COORDINATES
32.40175 LAT DEG
106.31252 LONG DEG

TABLE 10

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
4051.4	870.9	20.1	41.0	1037.4	665.5	190.0	4.1	1.000274
4500.0	863.2	24.9	28.8	1003.0	673.9	213.0	3.9	1.000263
5000.0	848.3	24.3	25.2	990.2	673.0	239.4	4.6	1.000253
5500.0	833.4	23.2	26.5	976.2	671.8	253.5	5.9	1.000250
6000.0	818.7	22.2	27.9	962.5	670.6	263.3	7.5	1.000247
6500.0	804.3	21.1	29.3	949.0	669.4	260.7	7.4	1.000244
7000.0	790.2	20.0	30.6	935.6	668.2	250.7	7.0	1.000240
7500.0	776.3	19.0	32.0	922.5	667.0	241.5	8.3	1.000237
8000.0	762.6	17.9	33.4	909.6	665.8	235.6	10.3	1.000233
8500.0	749.2	16.9	34.8	896.9	664.6	232.2	12.8	1.000230
9000.0	736.0	15.8	36.1	884.4	663.3	229.9	15.4	1.000227
9500.0	723.0	14.7	37.5	872.1	662.1	225.8	16.7	1.000223
10000.0	710.3	13.7	38.9	859.9	660.9	221.9	17.8	1.000220
10500.0	697.8	12.5	40.7	846.1	659.5	217.3	18.7	1.000216
11000.0	685.1	11.1	44.8	837.1	657.6	213.5	19.8	1.000214
11500.0	672.8	9.6	48.8	826.3	656.1	214.6	21.2	1.000212
12000.0	660.6	8.2	47.1	813.4	654.4	217.0	22.2	1.000206
12500.0	648.4	7.2	35.4	804.1	652.9	223.5	21.7	1.000196
13000.0	636.4	5.8	36.3	793.1	651.3	228.3	21.2	1.000193
13500.0	624.5	4.5	37.2	782.2	649.7	230.1	20.5	1.000190
14000.0	612.9	3.1	38.0	771.5	648.1	230.8	20.4	1.000186
14500.0	601.5	1.8	38.9	760.9	646.5	230.9	20.8	1.000183
15000.0	590.4	.4	39.8	750.5	644.9	232.7	21.0	1.000180
15500.0	579.4	-0.9	40.7	740.3	643.3	234.5	21.4	1.000177
16000.0	568.5	-2.2	44.9	729.6	641.7	235.2	22.7	1.000175
16500.0	557.6	-3.5	51.1	719.3	640.2	236.2	24.2	1.000173
17000.0	547.0	-4.8	57.3	709.0	638.7	236.2	26.5	1.000171
17500.0	536.5	-6.2	66.9	698.6	637.1	240.1	28.6	1.000169
18000.0	526.2	-7.5	79.3	688.7	635.6	242.3	30.3	1.000168
18500.0	516.0	-8.9	99.2	678.9	633.9			1.000166
19000.0	506.0	-10.3	90.3	669.2	632.2			1.000163

STATION ALTITUDE 4,513.17 FEET MSL
8 JUNE 82
ASCENSION NO. 56 0630 MDT

GEODETIC COORDINATES
32.40175 LAT DEG
106.31232 LON DEG

TABLE 11

PRESSURE (PO) MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUMIDITY PERCENT	WIND DATA	
			DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	24.4	25	257.0	4.5
800.0	20.6	30	257.4	7.3
750.0	15.9	35	252.3	12.7
700.0	12.8	40	218.1	18.6
650.0	7.3	35	222.0	21.8
600.0	1.6	39	231.1	20.8
550.0	-4.5	56	257.0	25.8
500.0	-11.1	91		

STATION ALTITUDE 3489.00 FEET MSL
 8 JUNE 82 0702 MDT
 ASCENSION 110. 256

SIGNIFICANT LEVEL DATA
 1500020230
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

TABLE 12

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE	REL. HUM.
MILLIBARS	MSL FEET	AIR DEWPOINT DEGREES CENTIGRADE	PERCENT
876.5	3089.0	22.6	6.6
869.5	4283.3	23.0	5.9
859.5	4615.7	25.8	5.4
850.0	4936.5	25.6	4.1
772.9	7648.0	18.9	1.0
700.0	10414.7	13.2	1.6
671.1	11575.0	10.3	-.5
653.1	12316.1	8.3	-0.2
574.7	15732.2	-4.7	-13.5
541.0	17308.8	-8.4	-11.3
516.1	18520.9	-10.4	-10.6
500.0	19327.7	-15.3	-10.8
460.3	21405.9	-16.8	-15.7
452.7	21818.8	-18.1	-17.2
445.1	22236.4	-16.8	-20.2
437.3	22672.2	-16.3	-27.4
429.9	23094.4	-19.5	-25.2
414.9	23970.7	-21.5	-24.7
400.0	24867.5	-26.1	-20.2
386.1	25729.2	-35.5	-27.9
351.3	28000.6	-41.9	-39.7
300.0	31690.4	-45.6	-40.1
266.9	34334.3	-53.6	
250.0	35781.9	-53.6	
215.4	38995.1	-53.6	
200.0	40567.0	-64.1	
169.8	43953.5	-67.5	
150.0	46442.0	-67.5	
138.2	48073.4	-65.0	
114.2	51691.7	-64.4	
103.0	53071.0	-64.4	
100.0	54566.5	-64.1	
96.0	55390.7	-67.5	
82.6	58404.3	-60.8	
76.0	61749.5	-59.9	
67.2	62589.7	-60.7	
64.2	63530.0	-55.2	
50.0	68735.1	-52.9	
32.8	77678.9	-50.7	
30.0	79592.3		

MODELIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

SIGNIFICANT LEVEL DATA
 15900.0250
 WHITE SANDS

STATION ALTITUDE 3489.00 FEET MSL
 8 JUNE 82 0702 MDT
 ASCENSION NO. 256

TABLE 12 Cont'd

GEOMETRIC ALTITUDE	TEMPERATURE	REL. HUM.
FEET	AIR DEGREE	PERCENT
MSL	DEGREE	
21.3	87047.5	-46.4

UPPER AIR DATA
150002050
WHITE SANDS
TABLE 13

STATION ALTITUDE 3989.00 FEET MSL
8 JUNE 82
ASCENSION NO. 256

CLOUDS: 000000
32.40043 LAT DEG
106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF WIND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3989.0	878.5	22.6	6.4	36.0	1030.4	671.4	130.0	4.1	1.000272
4000.0	878.2	22.6	6.8	35.9	1029.9	671.4	180.0	4.1	1.000272
4500.0	863.0	24.8	5.6	29.1	1004.9	673.8	215.0	3.7	1.000263
5000.0	848.1	25.4	4.1	25.1	985.9	674.4	244.9	4.7	1.000254
5500.0	833.4	24.2	3.5	26.0	972.8	675.0	261.2	6.5	1.000251
6000.0	818.9	23.0	3.0	27.0	960.0	671.6	270.2	8.5	1.000247
6500.0	804.6	21.7	2.4	27.9	947.3	670.1	283.0	8.4	1.000243
7000.0	790.7	20.5	1.8	28.8	934.9	668.7	294.5	8.3	1.000239
7500.0	776.9	19.3	1.2	29.7	922.6	667.3	294.0	9.4	1.000235
8000.0	763.2	18.2	1.2	32.0	909.0	666.0	230.7	10.9	1.000233
8500.0	749.7	17.1	1.5	34.9	896.5	664.9	230.7	12.8	1.000231
9000.0	736.4	16.1	1.7	37.8	883.7	663.8	220.2	15.0	1.000228
9500.0	723.3	15.1	1.8	40.7	871.0	662.8	222.7	17.1	1.000226
10000.0	710.5	14.1	1.9	43.6	858.0	661.5	219.3	18.3	1.000223
10500.0	697.8	13.0	1.7	46.1	846.0	660.2	210.7	19.7	1.000221
11000.0	685.3	11.7	.7	46.5	833.0	658.7	217.0	20.5	1.000216
11500.0	672.9	10.5	-3	46.9	823.7	657.2	217.9	21.1	1.000212
12000.0	660.7	9.2	-4.7	37.3	813.3	655.4	219.9	21.6	1.000202
12500.0	648.6	7.8	-8.5	30.4	802.7	653.8	223.0	21.7	1.000194
13000.0	636.6	6.5	-9.2	31.4	791.5	652.1	220.1	21.9	1.000191
13500.0	624.8	5.2	-9.9	32.4	780.5	650.5	220.5	21.9	1.000188
14000.0	613.2	3.9	-10.7	33.5	769.7	649.0	231.0	21.9	1.000185
14500.0	601.8	2.6	-11.5	34.5	759.1	647.3	231.0	22.3	1.000182
15000.0	590.7	1.3	-12.3	35.5	748.6	645.9	231.0	22.8	1.000179
15500.0	579.7	.0	-13.1	36.5	738.2	644.3	231.2	23.5	1.000176
16000.0	568.8	-1.3	-12.4	40.9	727.6	642.8	230.4	24.7	1.000174
16500.0	558.0	-2.6	-12.0	48.2	717.3	641.3	229.9	25.8	1.000172
17000.0	547.4	-3.9	-11.5	55.5	707.0	639.8	231.3	26.7	1.000171
17500.0	537.0	-5.3	-11.1	63.6	697.1	638.2	233.1	27.7	1.000169
18000.0	526.7	-6.8	-10.8	73.1	687.3	636.4	233.7	28.7	1.000167
18500.0	516.5	-8.3	-10.8	82.6	676.1	634.8	238.7	29.8	1.000166
19000.0	506.5	-9.6	-10.7	91.3	666.1	633.1	241.2	31.0	1.000164
19500.0	496.6	-10.8	-11.2	97.0	658.1	631.6	241.7	32.8	1.000161
20000.0	486.6	-12.0	-12.4	97.0	648.1	630.2	242.3	34.8	1.000158
20500.0	477.2	-13.2	-13.5	97.0	638.3	628.7	243.0	37.3	1.000154
21000.0	467.8	-14.3	-14.7	97.0	628.7	627.2	243.7	39.2	1.000151
21500.0	458.6	-15.6	-16.0	97.0	619.5	625.6	244.4	40.1	1.000148
22000.0	449.4	-17.4	-20.5	76.2	611.4	623.4	244.7	40.8	1.000145
22500.0	440.4	-17.3	-26.9	43.0	599.3	623.3	243.7	40.7	1.000137
23000.0	431.5	-16.4	-25.7	44.4	585.2	624.4	242.6	40.7	1.000135

STATION ALTITUDE 3989.00 FEET MSL
8 JUNE 82 0702 MDT
ASCENSION NO. 256

UPPER AIR DATA
150002000
WHITE SANDS

GEOGRAPHIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 13 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KILOMETERS PER SECOND	WIND DATA DIRECTION (IN) SPEED (KNOTS)	INDEX OF REFRACTION
23500.0	422.9	-17.2	-24.9	51.1	575.2	623.5	242.0	1.000133
24000.0	414.4	-18.3	-24.7	56.9	566.1	622.1	242.2	1.000131
24500.0	405.0	-19.0	-25.6	55.8	556.2	621.3	242.7	1.000128
25000.0	397.8	-19.8	-26.5	55.2	546.7	620.3	243.0	1.000126
25500.0	389.7	-21.0	-27.4	55.7	536.1	618.9	244.4	1.000124
26000.0	381.8	-22.0	-28.7	54.6	529.4	617.5	245.2	1.000121
26500.0	373.9	-23.1	-30.2	51.9	520.0	616.2	246.1	1.000119
27000.0	366.2	-24.1	-31.6	49.3	512.0	615.0	246.0	1.000117
27500.0	358.7	-25.1	-33.1	46.6	503.5	613.7	245.4	1.000114
28000.0	351.3	-26.1	-34.7	44.0	495.2	612.4	244.8	1.000112
28500.0	343.9	-27.4	-35.8	44.1	487.3	610.8	243.2	1.000110
29000.0	336.6	-28.6	-37.0	44.3	479.4	609.3	241.7	1.000108
29500.0	329.5	-29.9	-38.1	44.4	471.6	607.7	240.5	1.000107
30000.0	322.5	-31.2	-39.2	44.5	464.2	606.1	239.5	1.000105
30500.0	315.7	-32.5	-40.4	44.7	456.6	604.5	238.5	1.000103
31000.0	309.0	-33.7	-41.5	44.8	449.5	602.8	237.7	1.000101
31500.0	302.5	-35.0	-42.7	44.9	442.4	601.2	237.0	1.000099
32000.0	295.9	-36.2	-45.0	39.7**	435.1	599.7	236.2	1.000098
32500.0	289.4	-37.5	-48.2	31.2**	427.6	598.1	235.5	1.000096
33000.0	283.1	-38.7	-52.0	22.7**	420.6	596.6	234.8	1.000094
33500.0	276.9	-39.9	-56.8	14.2**	413.6	595.0	234.1	1.000092
34000.0	270.9	-41.1	-64.8	5.7**	406.6	593.5	233.7	1.000091
34500.0	264.9	-42.3			399.6	591.9	233.9	1.000089
35000.0	259.0	-43.6			393.0	590.2	234.0	1.000088
35500.0	253.2	-44.9			386.4	588.6	234.6	1.000086
36000.0	247.5	-46.1			379.8	587.0	235.0	1.000085
36500.0	241.8	-47.4			373.1	585.4	235.6	1.000083
37000.0	236.3	-48.6			366.6	583.7	237.0	1.000082
37500.0	230.9	-49.9			360.2	582.1	238.5	1.000080
38000.0	225.6	-51.1			353.9	580.5	239.3	1.000079
38500.0	220.4	-52.4			347.6	578.9	239.6	1.000077
39000.0	215.4	-53.6			341.7	577.2	239.8	1.000076
39500.0	210.3	-53.6			333.7	577.2	231.5	1.000074
40000.0	205.4	-53.6			325.9	577.2	231.3	1.000073
40500.0	200.6	-53.6			316.5	577.2	231.1	1.000071
41000.0	195.9	-54.9			312.7	575.5	232.0	1.000070
41500.0	191.2	-56.5			307.4	573.4	235.3	1.000068
42000.0	186.6	-58.0			302.2	571.4	236.7	1.000067
42500.0	182.2	-59.6			297.1	569.3	235.4	1.000066
43000.0	177.8	-61.1			292.2	567.2	234.1	1.000065

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.0 FEET MSL
8 JUNE 82
ASCENSION NO. 256

UPPER AIR DATA
1590020250
WHITE SANDS

TABLE 13 Cont'd

GEOLITIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA WINDSPEED (KT) WIND DIRECTION	INDEX OF REFRACTION
43500.0	173.6	-62.7		287.3	565.2	220.2	1.000064
44000.0	169.4	-64.1		282.4	563.2	222.3	1.000063
44500.0	165.2	-64.6		276.1	562.6	220.5	1.000061
45000.0	161.2	-65.1		269.9	561.9	221.3	1.000060
45500.0	157.2	-65.6		263.9	561.3	223.9	1.000059
46000.0	153.3	-66.1		258.0	560.6	230.1	1.000057
46500.0	149.6	-66.5		252.2	560.0	230.1	1.000056
47000.0	145.9	-66.8		246.3	559.6	237.3	1.000055
47500.0	142.2	-67.1		240.5	559.2	238.1	1.000054
48000.0	138.7	-67.5		234.9	558.7	238.9	1.000052
48500.0	135.3	-67.2		229.8	559.1	239.3	1.000051
49000.0	131.9	-66.7		222.7	559.7	239.6	1.000050
49500.0	128.7	-66.3		216.8	560.2	242.3	1.000048
50000.0	125.5	-65.9		211.0	560.8	244.8	1.000047
50500.0	122.4	-65.5		205.4	561.3	248.2	1.000046
51000.0	119.4	-65.1		200.0	561.9	252.5	1.000045
51500.0	116.5	-64.7		194.8	562.4	255.8	1.000043
52000.0	113.6	-64.4		189.6	562.8	258.2	1.000042
52500.0	110.8	-64.6		185.1	562.8	259.6	1.000041
53000.0	108.1	-64.7		180.7	562.4	257.8	1.000040
53500.0	105.4	-64.9		176.3	562.2	255.4	1.000039
54000.0	102.9	-65.0		172.1	562.1	253.2	1.000038
54500.0	100.3	-64.5		167.5	562.8	255.0	1.000037
55000.0	97.9	-64.2		163.2	563.1	255.3	1.000036
55500.0	95.5	-64.2		159.2	563.1	258.2	1.000035
56000.0	93.1	-64.8		155.7	562.3	258.3	1.000035
56500.0	90.8	-65.4		152.3	561.6	253.8	1.000034
57000.0	88.6	-65.9		148.9	560.8	251.3	1.000033
57500.0	86.4	-66.5		145.7	560.1	248.9	1.000032
58000.0	84.3	-67.0		142.5	559.3	246.6	1.000032
58500.0	82.2	-67.3		139.1	558.9	248.4	1.000031
59000.0	80.2	-66.3		135.1	560.3	255.8	1.000030
59500.0	78.2	-65.3		131.1	561.8	264.1	1.000029
60000.0	76.3	-64.3		127.3	563.0	272.9	1.000028
60500.0	74.5	-63.3		123.8	564.3	303.8	1.000028
61000.0	72.6	-62.3		120.0	565.7	352.7	1.000027
61500.0	70.9	-61.3		116.5	567.0	62.8	1.000026
62000.0	69.2	-60.5		113.3	568.1	92.8	1.000025
62500.0	67.5	-60.0		110.3	568.8	93.8	1.000025
63000.0	65.9	-60.2		107.8	569.4	94.7	1.000024

GEODETIC COORDINATES
32.40043 LAT DEG
106.57033 LON DEG

UPPER AIR DATA
1590020250
WHITE SANDS
TABLE 13 Cont'd

STATION ALTITUDE 3989.00 FLL1 MSL
8 JUNE 82 0702 MDT
ASCENSION NO. 256

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SPEED KNOTS	INDEX OF REFRACTION
63500.0	64.3	-60.7			103.4	567.9	100.0	1.000023
64000.0	62.8	-60.2			102.7	568.5	103.0	1.000023
64500.0	61.3	-59.7			100.0	569.2	101.7	1.000022
65000.0	59.8	-59.1			97.4	569.9	97.0	1.000022
65500.0	58.4	-58.6			94.6	570.6	94.1	1.000021
66000.0	57.0	-58.1			92.4	571.3	94.7	1.000021
66500.0	55.7	-57.6			89.9	572.0	95.5	1.000020
67000.0	54.3	-57.0			87.0	572.7	97.3	1.000020
67500.0	53.1	-56.5			85.3	573.4	101.0	1.000019
68000.0	51.8	-56.0			83.1	574.1	104.0	1.000018
68500.0	50.6	-55.4			80.9	574.8	106.9	1.000018
69000.0	49.4	-55.1			78.9	575.2	109.3	1.000018
69500.0	48.2	-55.0			77.0	575.4	111.4	1.000017
70000.0	47.1	-54.9			75.2	575.6	111.0	1.000017
70500.0	46.0	-54.7			73.4	575.7	110.0	1.000016
71000.0	44.9	-54.6			71.6	575.9	109.7	1.000016
71500.0	43.9	-54.5			69.9	576.1	107.6	1.000016
72000.0	42.9	-54.4			68.3	576.2	105.9	1.000015
72500.0	41.9	-54.2			66.6	576.4	103.6	1.000015
73000.0	40.9	-54.1			65.0	576.6	100.5	1.000014
73500.0	39.9	-54.0			63.5	576.8	96.0	1.000014
74000.0	39.0	-53.8			62.0	576.9	91.5	1.000014
74500.0	38.1	-53.7			60.5	577.1	86.5	1.000013
75000.0	37.2	-53.6			59.0	577.3	82.5	1.000013
75500.0	36.3	-53.5			57.6	577.4	80.5	1.000013
76000.0	35.5	-53.3			56.3	577.6	79.2	1.000013
76500.0	34.7	-53.2			54.9	577.8	77.0	1.000012
77000.0	33.9	-53.1			53.6	577.9	74.5	1.000012
77500.0	33.1	-52.9			52.3	578.1	71.5	1.000012
78000.0	32.3	-52.5			51.0	578.7	71.3	1.000011
78500.0	31.6	-52.0			49.7	579.4	77.4	1.000011
79000.0	30.8	-51.4			48.4	580.2	62.7	1.000011
79500.0	30.1	-50.8			47.2	580.9	87.5	1.000011
80000.0	29.4	-50.5			46.1	581.4	92.0	1.000010
80500.0	28.8	-50.2			45.0	581.7	97.9	1.000010
81000.0	28.1	-49.9			43.9	582.1	99.5	1.000010
81500.0	27.5	-49.6			42.0	582.5	96.9	1.000010
82000.0	26.9	-49.3			41.6	582.9	93.5	1.000009
82500.0	26.2	-49.0			40.8	583.2	92.9	1.000009
83000.0	25.7	-48.7			39.8	583.6	95.0	1.000009

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

UPPER AIR DATA
1590020250
WHITE SANDS
TABLE 13 Cont'd

STATION ALTITUDE 3989.0 FT. 1 MSL
8 JUNE 62 0702 MDT
ASCENSION NO. 256

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND METERS PER SECOND	WIND DATA DIRECTION DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
83500.0	25.1	-48.4		36.9	584.0	97.0	11.7	1.000009
84000.0	24.5	-48.2		37.9	584.4	96.1	11.8	1.000008
84500.0	23.9	-47.9		37.0	584.7	97.0	12.5	1.000008
85000.0	23.4	-47.6		36.1	585.1	97.2	13.3	1.000008
85500.0	22.9	-47.3		35.3	585.5			1.000008
86000.0	22.4	-47.0		34.4	585.9			1.000008
86500.0	21.8	-46.7		33.6	586.2			1.000007
87000.0	21.3	-46.4		32.8	586.6			1.000007

STATION ALTITUDE 3989.00 FEET MSL
8 JUNE 82 0702 MDT
ASCENSION NO. 250

MAINTENANCE LEVELS
1590020250
WHITE SANDS

GEODETL COORDINATES
32.40043 LAT DEG
106.57033 LON DEG

TABLE 14

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMIDITY PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4933.	25.6	4.1	25.	241.8	4.6
800.0	6667.	21.3	2.2	20.	260.2	8.4
750.0	8486.	17.2	1.5	35.	230.8	12.8
700.0	10404.	13.2	1.8	40.	217.1	19.4
650.0	12432.	8.0	-8.4	30.	222.7	21.7
600.0	14576.	2.4	-11.6	35.	231.0	22.4
550.0	16859.	-3.6	-11.0	54.	231.1	20.5
500.0	19300.	-10.4	-10.8	97.	241.5	32.1
450.0	21933.	-17.3	-19.9	80.	244.0	40.8
400.0	24826.	-19.5	-26.2	55.	243.3	42.6
350.0	28037.	-26.3	-34.9	44.	244.0	44.1
300.0	31627.	-35.5	-43.1	45.	250.7	49.4
250.0	35703.	-45.6			255.2	52.1
200.0	40469.	-53.6			231.1	62.6
175.0	43230.	-62.2			230.4	57.3
150.0	46316.	-66.5			235.1	64.2
125.0	49931.	-65.9			245.0	50.9
100.0	54397.	-64.4			255.0	28.2
80.0	58846.	-66.2			255.2	10.6
70.0	61536.	-60.8			85.4	2.0
60.0	64692.	-59.2			97.9	0.0
50.0	68475.	-55.2			107.8	13.8
40.0	73162.	-54.0			97.4	10.7
30.0	79250.	-50.7			80.0	20.4
25.0	83168.	-48.4			97.6	11.7

GEODETIC COORDINATES
32.40175 LAT DEG
106.31232 LON DEG

SIG. IF ILUM. LEVEL DATA
1500100057
LC-37

STATION ALTITUDE 4051.57 FEET MSL
8 JUN 82 0830 MDT
ASCENSION 140. 57

TABLE 15

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE AIR	DEWPOINT DEGREES	REL. HUM. PERCENT
MILLIBARS	MSL FEET	DEGREES	CENTIGRADE	
877.7	4051.4	24.1	9.7	40.0
850.0	4972.8	24.6	1.3	22.0
824.9	5831.1	22.7	-0.1	22.0
793.7	6927.7	20.6	-0.1	25.0
743.7	8757.7	15.8	1.9	39.0
733.7	9135.1	15.0	5.2	52.0
714.5	9871.9	13.8	1.6	44.0
700.0	10438.9	12.5	0.3	33.0
622.7	13618.7	4.4	-10.4	33.0
585.4	15257.6	-0.5	-10.9	45.0
562.7	16292.0	-3.6	-8.3	70.0
554.5	16673.8	-3.8	-8.1	72.0
522.9	18189.0	-7.4	-9.3	45.0
500.0	19332.0	-10.0	-11.9	86.0

STATION ALTITUDE 4,511.37 FEET MSL
 8 JUL 62 0830 MDT
 ASCENSION NO. 57

UPPER AIR DATA
 150010005/
 LC-37

STATION ALTITUDE 4,511.37 FEET MSL
 8 JUL 62 0830 MDT
 ASCENSION NO. 57

GEOMETRIC COORDINATES
 32.40175 LAT DEG
 106.31232 LONG DEG

TABLE 16

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND METERS PER SECOND	WIND DIRECTION DEGREES (TRUE)	WIND SPEED KNOTS	INDEX OF REFRACTION
4051.4	877.7	24.1	40.0	1023.5	673.4	170.0	6.0	1.000200
4500.0	864.1	24.3	31.2	1007.7	673.3	165.4	5.2	1.000205
5000.0	849.2	24.5	22.0	990.8	673.2	207.2	4.8	1.000250
5500.0	834.5	23.4	22.0	977.4	671.9	220.9	5.2	1.000245
6000.0	820.0	22.4	22.5	963.9	670.7	235.6	6.2	1.000241
6500.0	805.7	21.4	23.8	950.2	669.0	250.0	7.7	1.000238
7000.0	791.7	20.4	25.6	936.7	668.5	228.0	9.4	1.000236
7500.0	777.7	19.1	29.4	924.1	667.0	224.5	11.7	1.000235
8000.0	764.0	17.8	33.2	911.0	665.0	221.2	13.9	1.000233
8500.0	750.5	16.5	37.0	899.0	664.2	218.5	15.4	1.000232
9000.0	737.3	15.3	47.3	886.7	663.0	216.5	16.9	1.000235
9500.0	724.1	14.4	48.0	873.0	662.0	213.0	18.2	1.000231
10000.0	711.2	13.5	43.8	861.2	660.8	211.2	19.5	1.000223
10500.0	698.4	12.3	42.8	849.4	659.4	210.5	20.9	1.000218
11000.0	685.7	11.1	41.2	837.9	657.8	210.5	22.3	1.000212
11500.0	673.2	9.8	39.7	826.0	656.2	213.7	22.6	1.000207
12000.0	660.9	8.5	39.1	813.4	654.6	217.0	22.7	1.000202
12500.0	648.9	7.2	36.5	804.4	653.1	220.5	21.6	1.000197
13000.0	637.0	6.0	34.9	793.5	651.5	224.5	20.1	1.000193
13500.0	625.4	4.7	33.4	782.8	649.9	224.0	20.5	1.000188
14000.0	613.8	3.3	33.4	772.5	648.2	224.0	21.4	1.000180
14500.0	602.4	1.8	39.5	762.0	646.5	220.1	24.1	1.000163
15000.0	591.1	.3	43.1	751.0	644.7	220.9	25.9	1.000181
15500.0	580.0	-1.2	50.9	741.7	643.0	232.4	27.0	1.000180
16000.0	569.0	-2.7	62.9	731.5	641.3	230.0	28.2	1.000179
16500.0	558.2	-3.7	71.1	720.1	640.2	242.5	29.7	1.000178
17000.0	547.5	-4.6	74.8	708.6	639.2	240.0	30.8	1.000175
17500.0	537.0	-5.8	79.1	698.1	637.7	248.5	30.8	1.000172
18000.0	526.7	-7.0	83.4	687.6	636.3	247.1	30.8	1.000169
18500.0	516.6	-8.1	85.3	677.0	634.9			1.000166
19000.0	506.5	-9.2	85.7	667.4	633.5			1.000163

STATION ALTITUDE 4551.37 FEET MSL
8 JUNE 62
ASCENSION NO. 57

FAAD, TORRELL, LLS
1530100057
LC-37

GEODETIC COORDINATES
32.40175 LAT DEG
106.31232 LONG DEG

TABLE 17

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS	
850.0	4969.	24.6	1.5	22.	205.9	4.8	
800.0	6098.	21.0	-1.1	24.	232.7	6.4	
750.0	8514.	15.4	1.0	37.	218.4	15.5	
700.0	10428.	12.5	.3	43.	211.0	20.7	
650.0	12450.	7.4	-6.5	37.	220.2	21.7	
600.0	14590.	1.5	-10.0	40.	225.4	24.7	
550.0	16863.	-4.3	-8.3	74.	246.2	30.8	
500.0	19305.	-10.0	-11.9	86.			

